

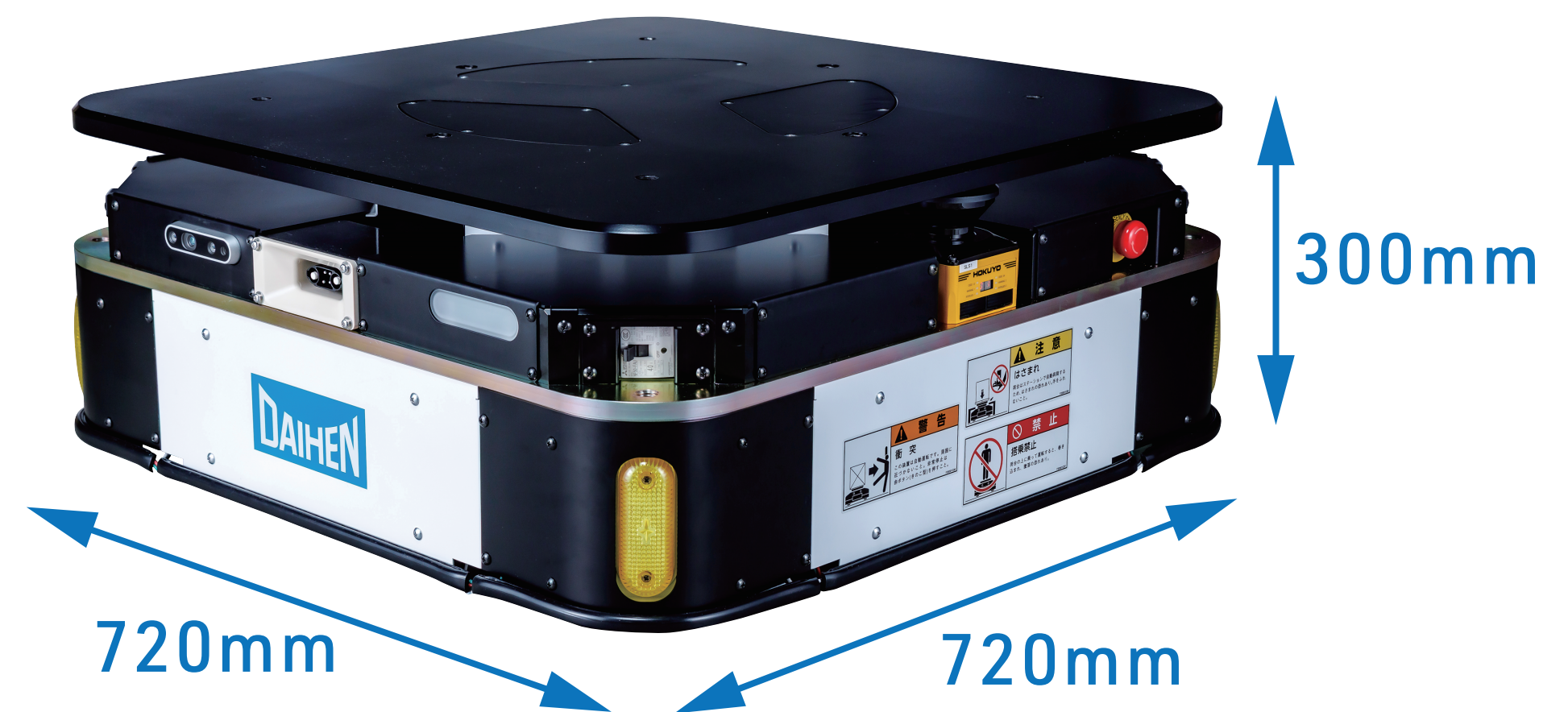


Factory Automation from Incoming Goods to Assembly, Processing, and Shipping

AiTran500

Transportation in narrower aisles

- Compact body with dimensions 720mm × 720mm
- In-house designed 4-wheel drive enables agile maneuvering in all directions

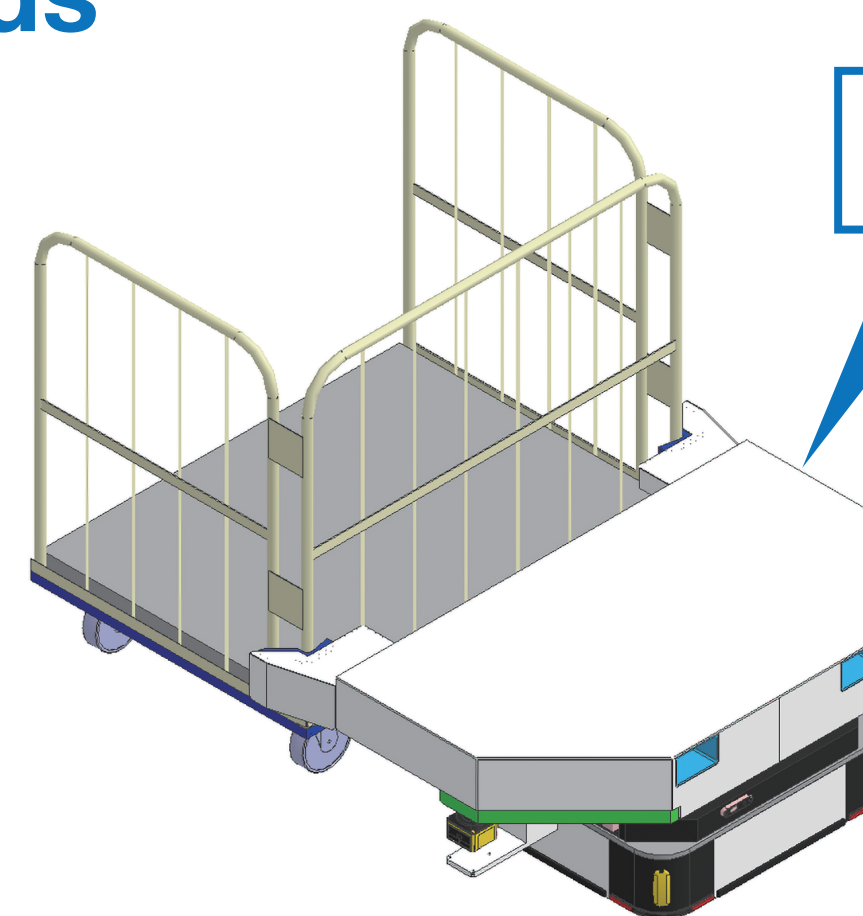


Fastest transport of 500kg payloads

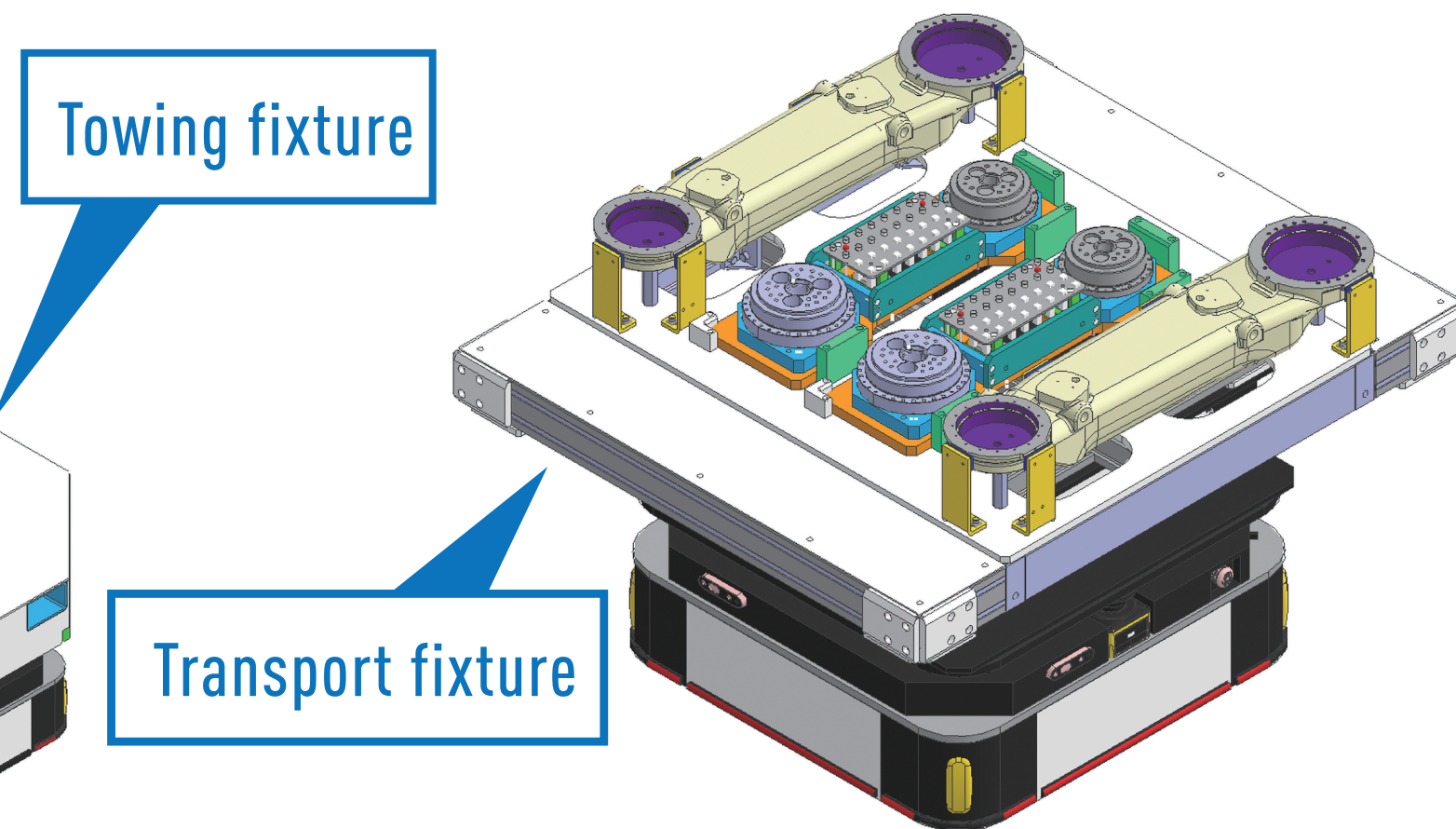
- Maximum 500kg load transported at top speed
- Achieves our fastest travel speed (1.4 times faster than previous models)

Various transport configurationsa

- Selectable according to customer requirements
- Wireless power supply compatible



Towing transport of cage carts



Lifting and transporting pallets



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AiTran Lift

1m × 1m footprint

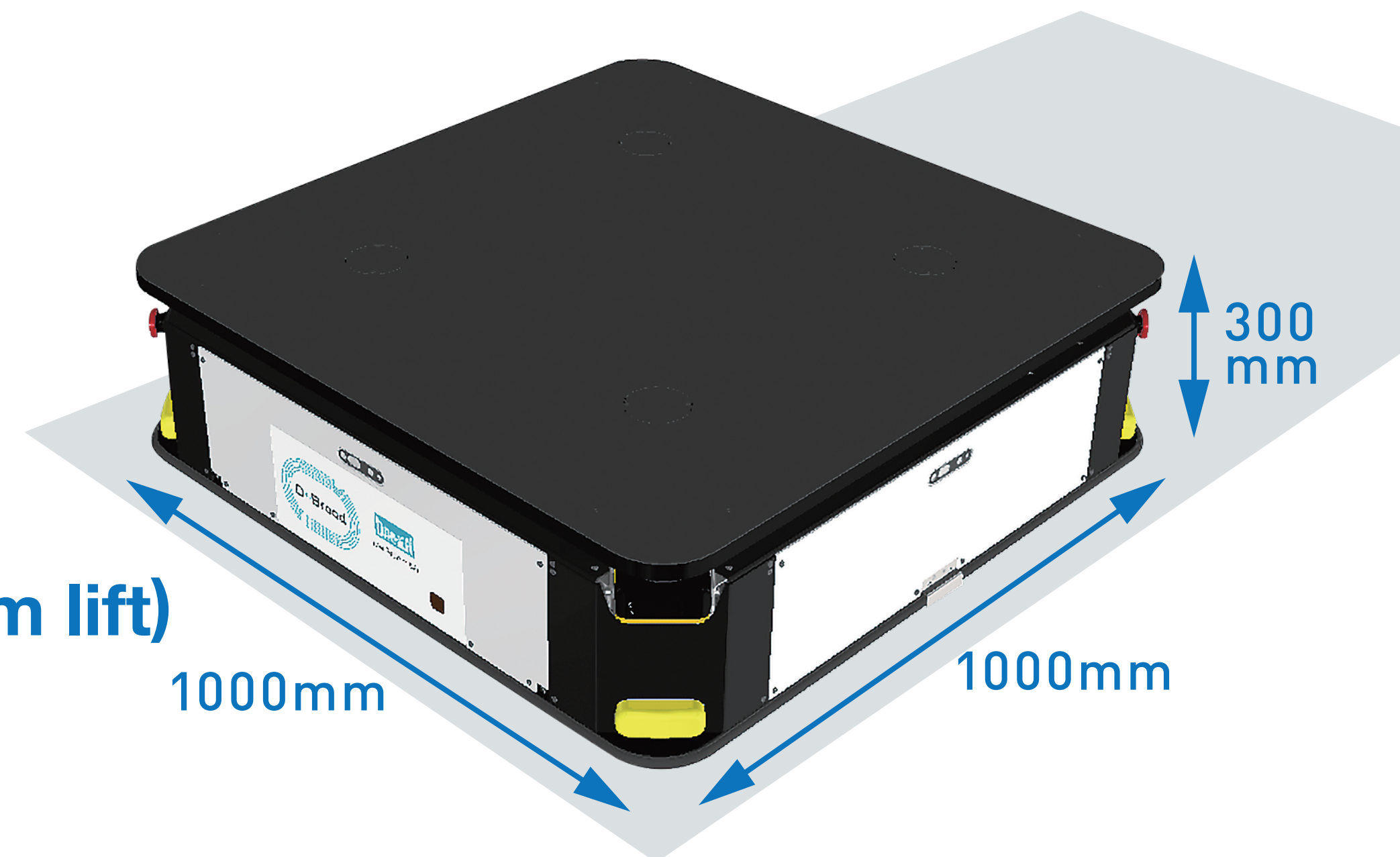
- 45% reduction compared to conventional models, Serfect fit for 1.1m × 1.1m pallets
- Square footprint allows entry from any direction

Overall height 300mm (with built-in 100mm lift)

- While Maintaining 100mm lift height capability, 25% lower floor than previous models, making it easier to maneuver under shelves and carts

High-speed stable transport

- 1.5 times faster travel speed compared to conventional models, all-directional movement enables shortest-distance travel
- Four-wheel drive effortlessly traverses slopes and corrugated steel plates



Special wheels enabling
omnidirectional
movement





Factory Automation from Incoming Goods to Assembly, Processing, and Shipping

FD-B100

High payload capacity, cable-Integrated

- 100kg payload ideal for handling applications
- Built-in cable prevents interference and allows greater robot posture freedom

High-density installation possible

- Internal cables also suppress interference between robots
- Slimmed down through optimized arm structure design

High-speed operation

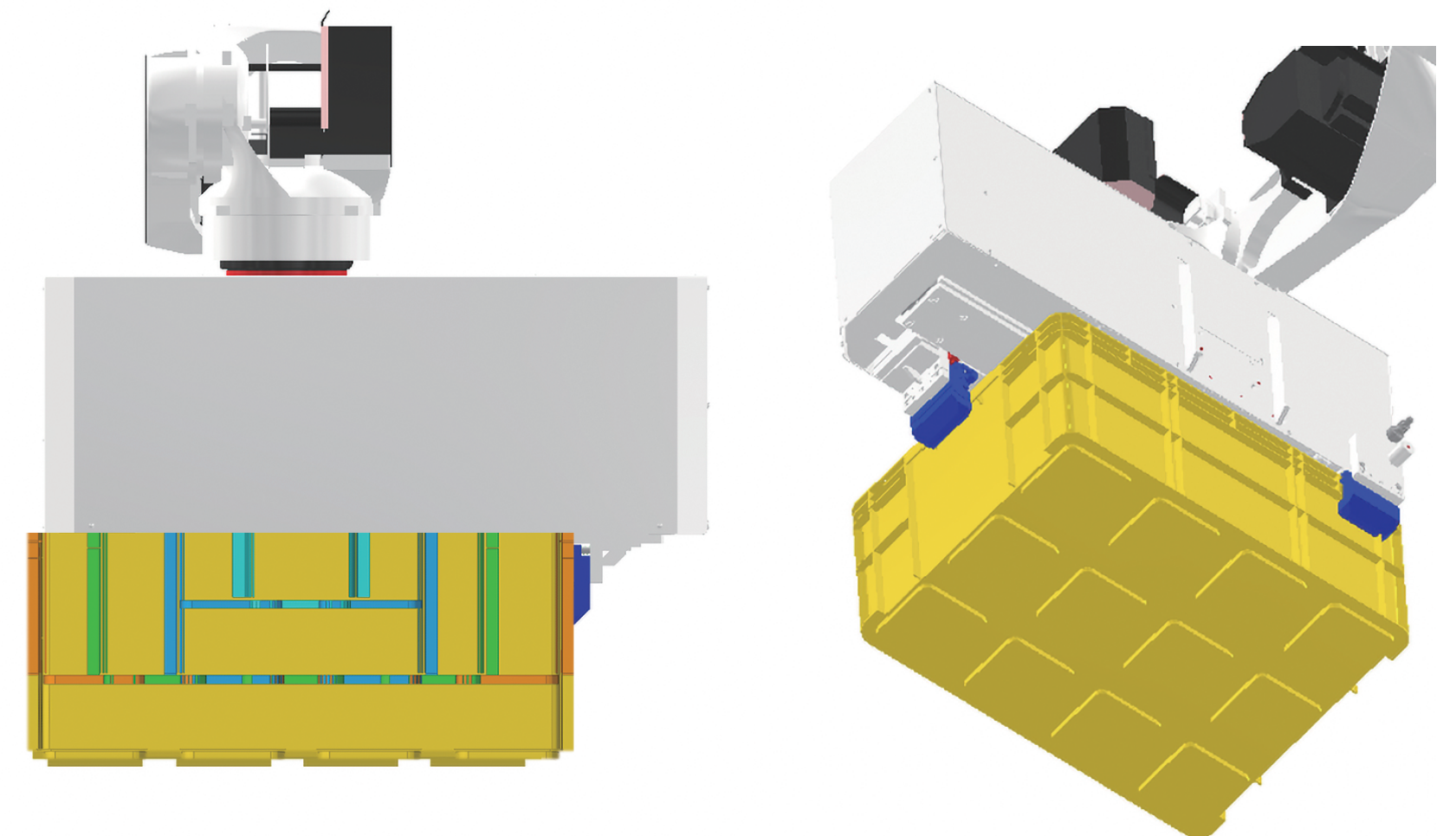
- Achieves best-in-class operating speeds, contributing to reduced cycle times.



Robotic Hand for Containers

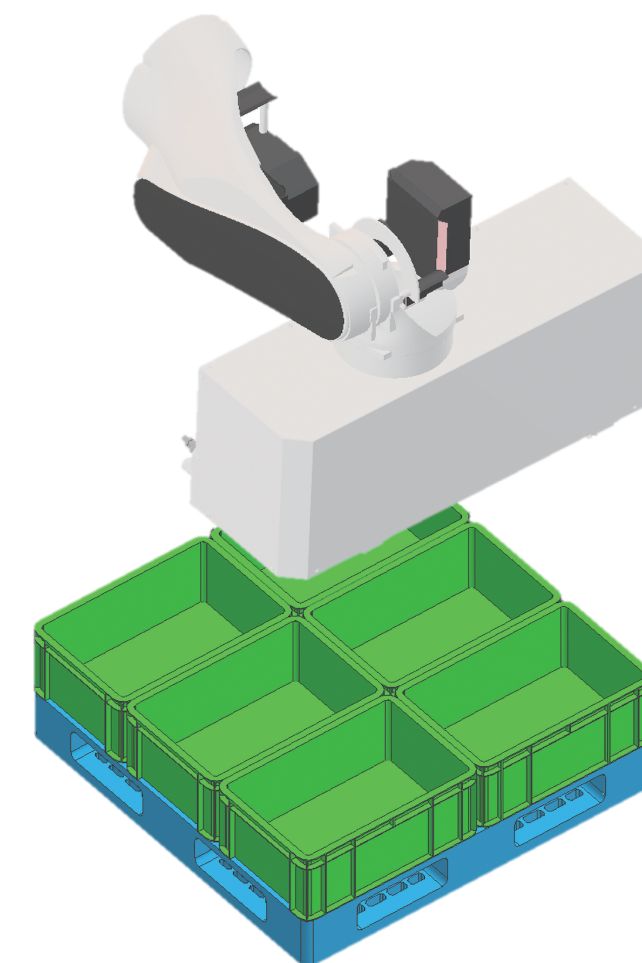
Transportation in narrower aisles

- Shift function for chuck position enables picking of containers of different sizes
allows picking of containers of different sizes without tool change
- The shape of the chuck jaws allows gripping according to the orientation of the container
allows gripping regardless of container orientation



Even tightly packed containers can be picked

- The shape of the robot hand enables picking and placing of containers
picking/placing of closely packed containers



Diverse Transport Methods (Cobot on AMR)

Cobot on AMR equipped with multi-tools

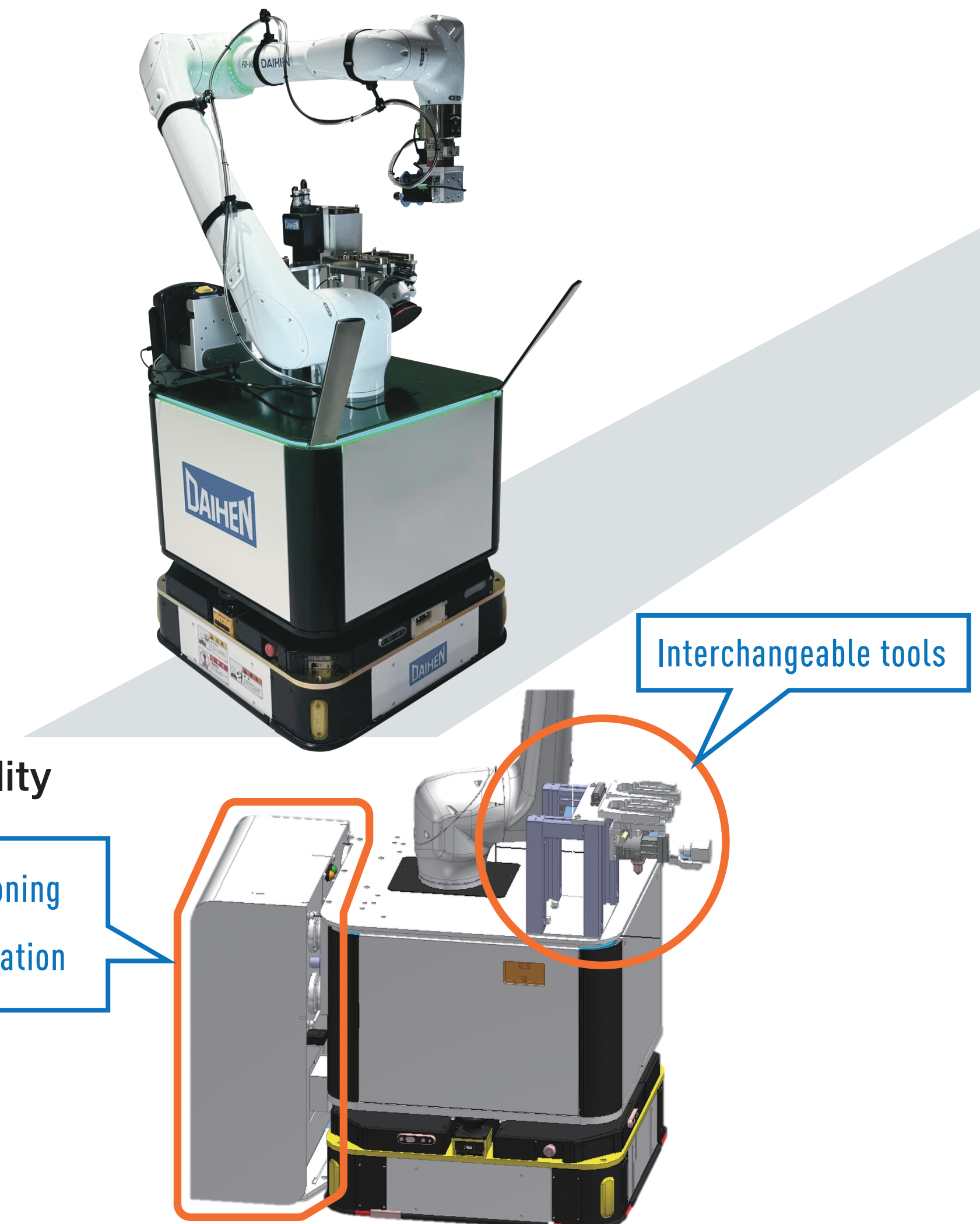
- Cobot on AMR combining collaborative robot, and AMR
- Achieves both inter-process transport and automation of each process with a single unit

Maximum automation with minimal investment

- Automate multiple tasks with a single unit by swapping tools at the arm tip
- Flexible adaptation to changing work areas through multi-tool capability

High-precision positioning

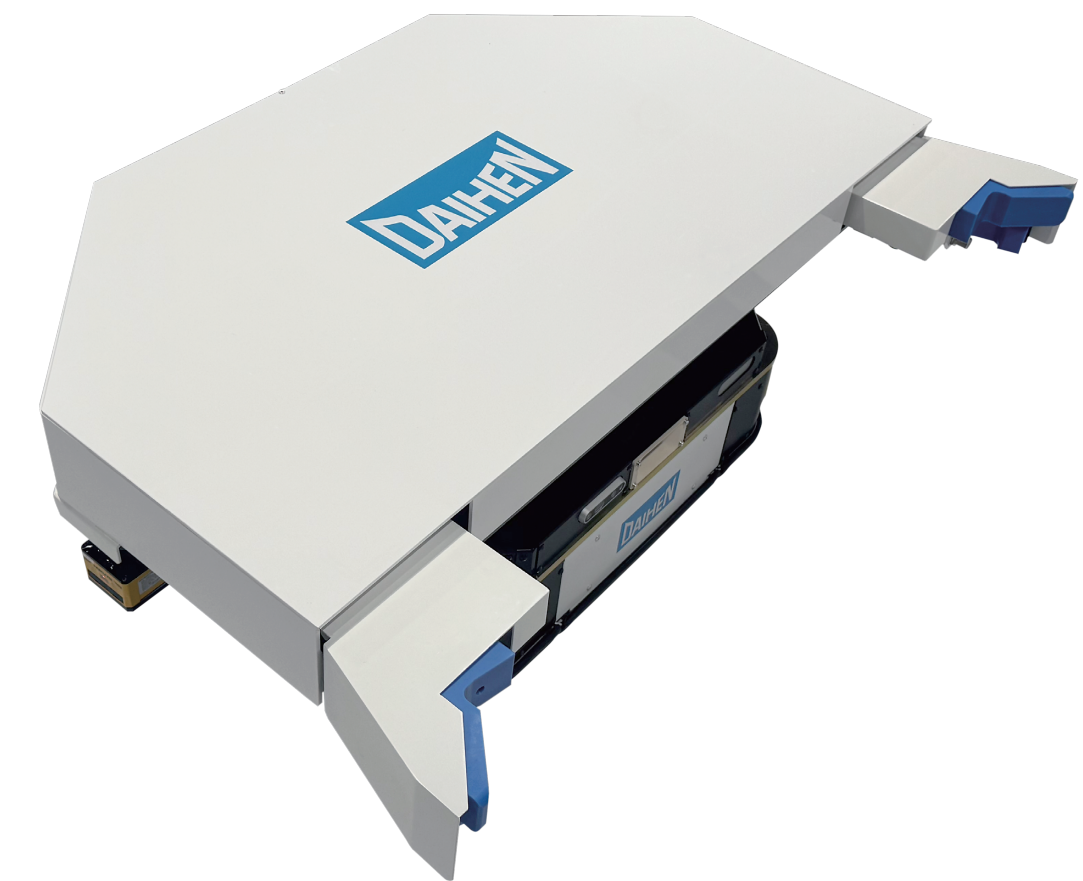
- High-precision positioning via a station that doubles as a charger
- No need for position correction sensors on the robot side



Various Conveying Methods (Towing Conveyance)

Tugging transport using a chuck mechanism

- Combining AiTran500 with a chuck mechanism for traction transport
- Side connection eliminates the need to slide under the conveyed object



Omnidirectional movement

- Omnidirectional movement enables space-saving transport
- Capable of turning at minimum radius
- Shortest-distance travel reduces cycle times
- Easy positioning

